RECLAMATION

Managing Water in the West

Federal Hydropower Strategic Planning Workshop

Reliability Standards - Compliance

Reclamation's Power Facilities

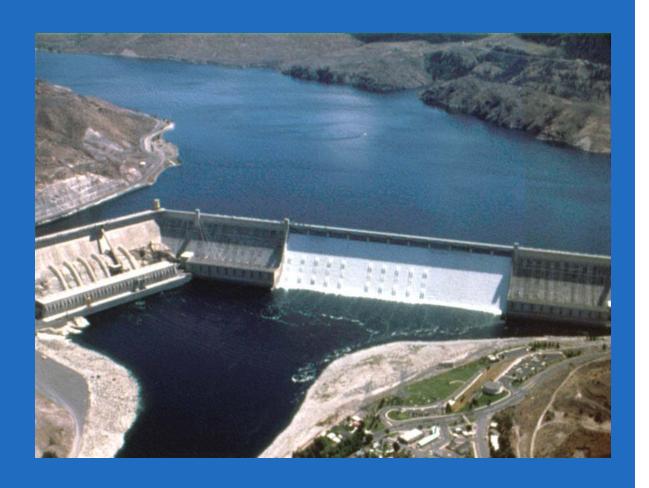
- 58 power plants with 14,780 megawatts of capacity
- 194 generating units
- 37 billion kilowatt hours generated (enough to serve 4 million homes)
- 2nd largest hydropower utility in United States

Reclamation's Power Facilities

- Average power plant size 254.2 MW
- Average unit size: 77 MW
- Largest unit size: 805 MW
- Smallest unit size: 350 kW
- Average age: 48 years
- Many plants are remotely operated

Grand Coulee

- 6,809 MW
- 33 units



Lewiston

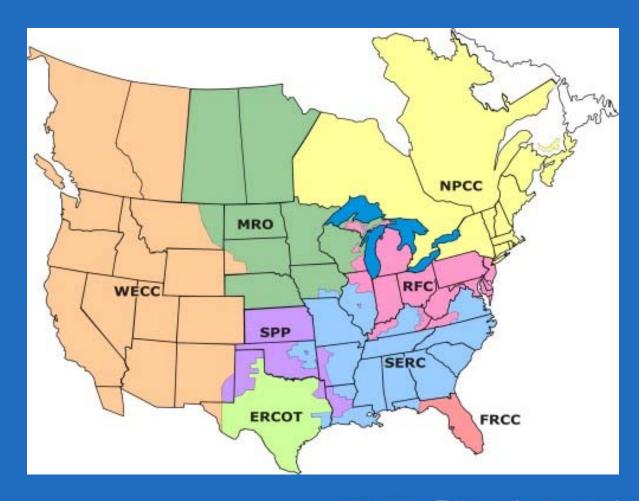
• 350 kw



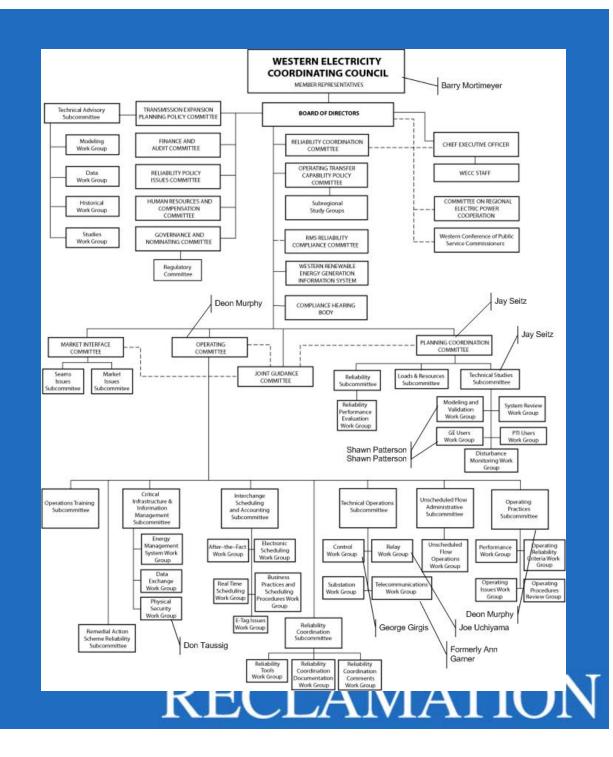
Site Map



NERC Footprint



WECC Organization Chart



WECC Committee Representation

- WECC Council
- Operating Committee
- Planning Coordination Committee
- Technical Studies Subcommittee
- Modeling and Validation Work Group
- Control Workgroup
- Operating Practices Subcommittee
- Relay Workgroup
- Physical Security Workgroup

NERC Registration

- Reclamation registered (Feb 2006) as:
- Generator Owner
- Generator Operator
- Transmission Owner

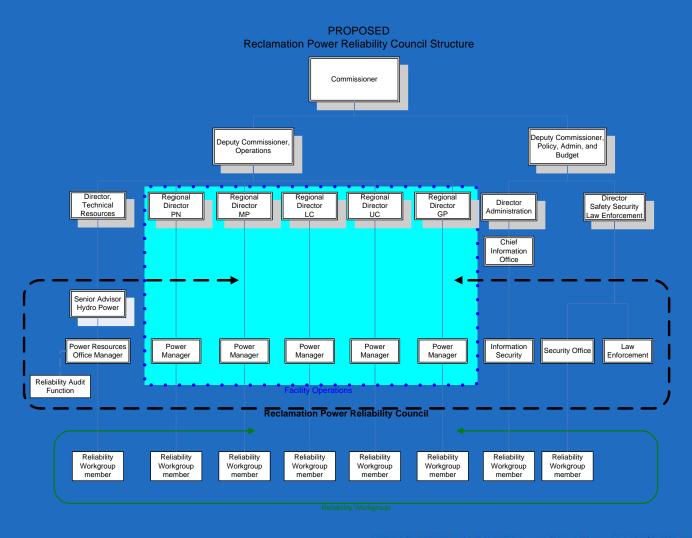
Mitigation Plans

- May 2007 Reclamation submitted 9 mitigation plans
- BAL-005-0 Automatic Generation Control
- CIP-001-1 Sabotage Reporting
- FAC-008-1 Facility Ratings Methodology
- FAC-009-1 Establish Facility Ratings
- PRC-004-1 Protection System Misoperations
- PRC-005-1 Protection Maintenance/Testing
- PRC-015-0 SPS Data Documentation
- PRC-016-0 SPS Misoperations
- PRC-017-0 SPS Maintenance/Testing

Organization Changes

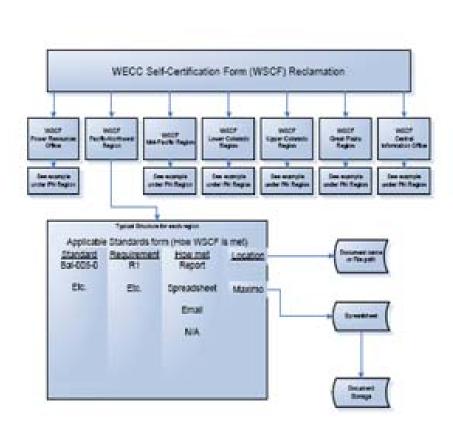
- Senior Level Position
 - Senior Advisor, Hydropower
 - Member of Reclamation Leadership Team
- Power Resources Office
 - Moved to Deputy Commissioner Operations
 - Provides corporate focus on reliability issues
- Reliability Council
 - Governing body overseeing compliance
 - Uniform response, coordination and focus

Reliability Council





Self-Certification Plan



PRC-005-1 Documentation July 2008

Unit	Protection System Component	Maintenance Interval	Summary Testing and Maintenance	Last Maint. Comp Date Comp WO #	Maintenance Within Interval	Next Scheduled Maintenance
Hungry Horse U1	11G1B Gen multi- function	10 yr	Job Plan #	Jan 2005 Comp WO #	Yes	
	CT QG1-1	5 yr	Job Plan #	Jan 2006	Yes	
	PT VT1	5 yr	Job Plan #	Jan 2006	Yes	
	Sta Battery 130 VDC	12 mos	Job Plan #	July 2007 Comp WO #	Yes	
	Battery Chgr	12 mos	Job Plan #	July 2007 Comp WO #	Yes	
	Control Circuit Functional Test	3-6 yrs	Job Plan #	Jan 2006 Comp WO #	Yes	